Atomic layer deposition apparatus for depositing atomic layer on multiple substrates

Patent Number:		<u>US6042652</u>							
Publication date:	2000	0-03-28	•		*	• • •			
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Requested Patent:		JP200031977	<u>"2</u>						\$e
Application Number:	US1	9990390710 1	9990907				•		
Priority Number(s):	KR1	9990015805 1	9990501	•			. •		
IPC Classification:	C23	C16/00			.*		φ.	1	
EC Classification:	<u>C23</u>	C16/44, C30B	25/14					**	
EC Classification:	C23	C16/44; C30B	25/14				· · .		
Equivalents:			•	٠	-				

Abstract

An atomic layer deposition (ALD) apparatus capable of depositing a thin film on a plurality of substrates. The atomic layer deposition apparatus includes: a vacuum chamber, a reactor installed in the vacuum chamber, having a plurality of modules which can be assembled and disassembled as desired, a plurality of stages as spaces partitioned by assembling the plurality of modules, and openings which allow each stage to receive one substrate; a gas supply portion installed in the reactor, for supplying reaction gases and a purging gas to the reactor; and a plurality of gas supply lines installed in the modules, for injecting the gases from the gas supply portion into the stages.